

Listing of Claims:

1. (Previously presented) A method of purifying air comprising withdrawing air from an enclosed space, passing the withdrawn air through an ultraviolet radiation section, where one or more surfaces of the ultraviolet radiation section are coated with a non-volatile antimicrobial agent, and returning the thus irradiated air to the enclosed space.
2. (Original) A method according to claim 1, and comprising filtering the withdrawn air.
3. (Original) A method according to claim 1, and comprising causing turbulence to the air flow prior to passing the withdrawn air through ultraviolet radiation.
4. (Previously presented) A method according to claim 1, wherein the antimicrobial agent comprises a quaternary amine in a silane.
5. (Cancelled)
6. (Previously presented) Apparatus for purifying air comprising means (3) for withdrawing air from an enclosed space (1), ducting (4) for directing withdrawn air through a unit including an ultraviolet radiation section (5) for irradiating the withdrawn air and thence back to an air inlet (8) arranged to communicate with the enclosed space, the ultraviolet radiation section having at least one of its internal surfaces coated with a non-volatile antimicrobial agent.
7. (Original) Apparatus according to claim 6, and comprising a filter (6a) for filtering the withdrawn air.
8. (Previously presented) Apparatus according to claim 6, and comprising a pre-sterilization section (6b).

9. (Previously presented) Apparatus according to claim 7, wherein an antimicrobial agent is coated on at least some of the internal surfaces of the filter (6a).
10. (Previously presented) Apparatus according to claim 8, wherein an antimicrobial agent is coated on at least some of the internal surfaces of the pre-sterilization section.
11. (Previously presented) A method according to claim 1, wherein the antimicrobial agent comprises 3-(trimethoxysilyl)-propyl dimethyloctadecyl ammonium chloride.
12. (Previously presented) An apparatus according to claim 6, wherein the antimicrobial agent comprises a quaternary amine group in a silane.
13. (Previously presented) A method according to claim 6, wherein the antimicrobial agent comprises 3-(trimethoxysilyl)-propyl dimethyloctadecyl ammonium chloride.
14. (Previously presented) Apparatus for purifying air comprising components including a fan system, an air extraction vent, an air flow conditioning section, and an ultraviolet illumination section, said components being connected via ducting, where said conditioning section and one or more surfaces of said illumination section is coated with an antimicrobial agent.
15. (Previously presented) The apparatus of claim 14, wherein the air flow conditioning section further comprises a filter.
16. (Previously presented) The apparatus of claim 15, wherein the filter comprises activated charcoal, metal, or synthetic or natural fibers.
17. (Previously presented) The apparatus of claim 14, wherein the air flow conditioning section further comprises a fixed, multi-bladed directional fan.

18. (Previously presented)The apparatus of claim 14, wherein the air flow conditioning section further comprises fixed shaped or planar members positioned at an angle to the air flow.
19. (Previously presented)The apparatus of claim 14, wherein the antimicrobial agent is a quaternary amine group in a silane.
20. (Previously presented)The apparatus of claim 14, wherein the antimicrobial agent is 3-(trimethoxysilyl)-propyl dimethyloctadecyl ammonium chloride.